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63. (New) The device of claim 61, wherein the silicon-containing precursor layer is selected from the group comprising hexamethyldisilazane, tetramethyldisilazane, octamethylcyclotetrasilazine, hexamethylcyclotrisilazine, diethylaminotrimethylsilane and dimethylaminotrimethylsilane.

- 64. (New) The device of claim 61, wherein the silicon-containing precursor layer comprises a silane.
- 65. (New) A device having a precursor layer comprising:
 - a silicon substrate including at least one semiconductor layer;
- a precursor layer comprising a metal-free silicon-containing material formed over at least a portion of said silicon substrate.
- 66. (New) A semiconductor device having a precursor layer comprising:
 - a substrate including at least one semiconductor layer; and
- a precursor layer comprising a metal-free silicon-containing material from a silazane source formed over at least a portion of said at least one semiconductor layer.
- 67. (New) A semiconductor device having a precursor layer containing no metal comprising:
- a silicon substrate including at least one semiconductor layer; and
 a precursor layer comprising a metal-form silicon-containing material from a
 silane source formed over at least a portion of said silicon substrate.
- 68. (New) A semiconductor device having a precursor layer comprising:
 - a substrate having at least one semiconductor layer:
 - a transistor structure formed proximate to said substrate, said transistor structure including
 - a source formed in said substrate,
 - a drain formed in said substrate, and

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a gate oxide layer formed over an active area between said source and drain; and

a precursor layer comprising a metal-free silicon-containing material formed over at least a portion of the transistor structure

- 69. (New) The device of claim 68, wherein a gate electrode is formed over said barrier layer.
- 70. (New) The device of claim 68, wherein said gate electrode is doped with phosphor.
- 71. (New) The device of claim 68, wherein said gate electrode is doped with boron.
- 72. (New) A capacitor device comprising:

 an electrode formed over a substrate; and

a precursor layer comprising/a metal-free silicon-containing material formed over the electrode.

73. (New) A capacitor device comprising:

an electrode formed over a substrate; and

a precursor layer comprising a metal-free silicon-containing material from a silazane source formed over the electrode.

74. (New) A capacitor device comprising:

an electrode formed over a substrate; and

a precursor layer comprising a metal-free silicon-containing material from a silane source formed over the electrode.

REMARKS

New claims 61-74 have been added. All of the claims recite, or ultimately depend from claims that recite, a precursor layer comprising a metal-free silicon-containing